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OSD Case Number 11-M-	Current Controlling Agency	Current Controlling Official	Current Distribution Control Statement	Current Overall Classification Level	Current Downgrading Instructions	Current Declass. Instructions
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1026	WHS	OSD Records Official	A Release Unlimited	S	N/A	N/A

If you have any questions, contact me by phone at 703-696-2197 or by e-mail at storer.robert@whs.mil or robert.storer@whs.smil.mil.

Robert Storer

- Enclosures:
1. DTIC request
 3. Six documents

Robert Storer
Chief, Records and Declassification Division

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HEADQUARTERS AIR MATERIEL COMMAND

WRIGHT FIELD, DAYTON, OHIO

11-M-1010 R-1
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REEL - C

74

A.T.I.

2 4 1 8

SECRET

1 October 1945

12-2

GROUND TO AIR PILOTLESS AIRCRAFT

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Summary only	12-2-1	1 Oct 1945

SECRET

X-135461-AA -2

SECRET

ATT NO. 2418

GROUND TO AIR PILOTLESS AIRCRAFT

Air Documents Division, T-2

AWC, Wright

Microfilm

SUMMARY

12-2-1

1 October 1945

R C-74 F 2418

1. Description - The Bell Telephone Laboratories on 14 May 1945 completed a three months' design study of the problems connected with the design and control of a ground to air pilotless aircraft capable of destroying a very heavy bombardment aircraft traveling at a speed of 600 mph at an altitude of 60,000 ft. desired or 40,000 ft. required. This study was made under a contract jointly with the Air Technical Service Command and the Army Service Forces, Ordnance Department. The results of this study were presented verbally in a meeting held at Washington, D. C., 14 May 1945. The formal report was distributed during July 1945.

On May 15, 1945, under contract from the Air Technical Service Command, the Boeing Aircraft Corporation began a three months' design study leading to the proposal of a design for a ground to air pilotless aircraft. This study included the results of the Bell Telephone Laboratory contract and all other related projects. Boeing completed their study and presented their final report to Air Technical Service Command on 20 September 1945, and to Hq., AAF on 26 September 1945.

This pilotless aircraft will probably be designed to operate at supersonic speeds. It is expected to employ a jet-assisted take-off unit of some type and will undoubtedly be rocket or jet propelled after launching. Various types of control systems are under consideration; however, some form of radar control looks to be the most promising.

2. Dates - The project was initiated in September 1944.

3. Types of Targets - The Ground to Air Pilotless aircraft will be suitable for use against high altitude aircraft.

4. Limitations - Limitations have not been determined to date.

5. Status of Development - The project is still in the preliminary study stage. Preliminary type specifications are now under preparation. As soon as funds are available, action will be taken to initiate a contract for a second phase of the complete development.

1 of 2

SECRET

2-17461-44-3

SECRET

GROUND TO AIR PILOTLESS AIRCRAFT

SUMMARY (Cont'd). 12-2-1
1 October 1945

b. Hq. AAF Comments -

a. The New York Ordnance District is now negotiating a contract with the Bell Telephone Laboratories for a ground-to-air missile of the characteristics proposed by the Bell Telephone Laboratories in their preliminary report of 14 May 1945. This contract will probably include the following:

(1) Three to four years for flying models.

(2) A cost of approximately \$1,500,000.00 per year, involving direct participation of approximately sixty (60) Bell Telephone Laboratories scientists, sixty (60) BTL miscellaneous personnel, indirect participation of approximately sixty (60) BTL miscellaneous personnel, and participation of subcontractors.

(3) A completely integrated contract on the whole project, including launching, aerodynamics, electronics and propulsion.

b. The final Bell Telephone Laboratories report on their study will be distributed about 15 July 1945.

c. The Army Air Forces will not proceed with any contract negotiations until the Boeing study is complete, and a report submitted. The date for this report is now planned as 27 August 1945.

2 of 2

SECRET

X-13461-AA -3

REEL - C

74

A.T.I.

2418

SECRET

TITLE: Ground to Air Pilotless Aircraft

ATI- 2418

DIVISION

AUTHOR(S): U.S. Air Materiel Command

(Dayton, O.)

ORIGINATING AGENCY: Air Materiel Command, Wright-Patterson Air Force Base,

ORIG. AGENCY NO.

PUBLISHED BY: (Same)

AAF-MD-E 98-1-2

PUBLISHING AGENCY NO.

DATE	DOC. CLASS.	COUNTRY	LANGUAGE	PAGES	ILLUSTRATIONS
Oct '45	Secr.	U.S.	Eng.	2	(None)

ABSTRACT:

The design and control of a ground-to-air pilotless aircraft is discussed. It is capable of destroying a very heavy bombardment aircraft traveling at a speed of 600 mph at an altitude of 60,000 ft desired or 40,000 ft required. It is expected to employ a jet-assisted take-off unit and be rocket or jet-propelled after launching. Radar seemed to be the most promising control system.

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DIVISION: Guided Missiles (1)

SECTION: Design and Description (12)

16/4.2

SUBJECT HEADINGS: Missiles, Guided - Design (62909);
Missiles, Guided - Assisted launching (62550)

ATI SHEET NO.: 8-1-12-39

Air Documents Division, Intelligence Department
Air Materiel CommandAIR TECHNICAL INDEX
SECRETWright-Patterson Air Force Base
Dayton, Ohio

SECRET

TITLE: Ground to Air Pilotless Aircraft

ATI- 2418

REVISION

AUTHOR(S): U.S. Air Materiel Command

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